

|   | Type | L # | Hits | Search Text  | DBs   | Time Stamp          |
|---|------|-----|------|--|---|---------------------|
| 1 | BRS  | L1  | 22   | ((carrier\$1 recepticl\$2<br>substrat\$2) same (apertur\$1<br>window\$1 hole\$1 opening\$1) ) and<br>((apertur\$1 window\$1 hole\$1<br>opening\$1 align\$5) near7 align\$5)<br>and ((pin\$1 near7 align\$5) same<br>ferrul\$2 same (waveguid\$3<br>fiber\$1)) and ((support\$3) same<br>(apertur\$1 window\$1 hole\$1<br>opening\$1) same align\$5 ) | USPAT;<br>US-PGPU<br>B; EPO;<br>JPO;<br>DERWENT | 2004/07/26<br>11:26 |

|   | Comments | Error Definition | Errors |
|---|----------|------------------|--------|
| 1 |          |                  | 0      |

|   | Type    | Hits | Search Text   | DBs                | Time Stamp          | Comments | Error Definition | Errors |
|---|---------|------|---|--------------------|---------------------|----------|------------------|--------|
| 1 | BR<br>S | 2515 | substrat\$2 same align\$5<br>same marks   | USPAT;<br>US-PGPUB | 2003/08/25<br>16:38 |          |                  | 0      |
| 2 | BR<br>S | 3819 | (photoactiv\$5 photodetect\$4<br>photodiod\$3 detect\$4 (photo<br>adj1 activ\$5) led leds<br>(light near1 source\$1)<br>photo adj1 (diode\$2<br>detect\$5) laser\$1) same<br>align\$5 same marks  | USPAT;<br>US-PGPUB | 2003/08/25<br>16:44 |          |                  | 0      |
| 3 | BR<br>S | 4442 | ferrul\$2 same fiber\$1   | USPAT;<br>US-PGPUB | 2003/08/25<br>16:43 |          |                  | 0      |
| 4 | BR<br>S | 1945 | (photoactiv\$5 photodetect\$4<br>photodiod\$3 detect\$4 (photo<br>adj1 activ\$5) led leds<br>(light near1 source\$1)<br>photo adj1 (diode\$2<br>detect\$5) laser\$1) same<br>ferrule\$1   | USPAT;<br>US-PGPUB | 2003/08/25<br>16:45 |          |                  | 0      |
| 5 | BR<br>S | 11   | (substrat\$2 same align\$5<br>same marks) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same marks)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1)                                     | USPAT;<br>US-PGPUB | 2004/04/14<br>12:12 |          |                  | 0      |
| 6 | BR<br>S | 3848 | ferrule\$1 same align\$5  | USPAT;<br>US-PGPUB | 2003/08/25<br>16:46 |          |                  | 0      |
| 7 | BR<br>S | 9    | ((substrat\$2 same align\$5<br>same marks) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same marks)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1)) and<br>(ferrule\$1 same align\$5) | USPAT;<br>US-PGPUB | 2003/08/26<br>12:50 |          |                  | 0      |
| 8 | BR<br>S | 0    | "3448432000" "344843/2000"<br>"344843-2000"   | JPO; DERWENT       | 2003/08/25<br>16:59 |          |                  | 0      |

|    | Type    | Hits | Search Text  | DBs                | Time Stamp          | Comments | Errors |
|----|---------|------|--|--------------------|---------------------|----------|--------|
| 9  | BR<br>S | 0    | "3448432000" "344843/2000"<br>("344843" adj1 "2000")   | JPO; DERWENT       | 2003/08/25<br>16:59 |          | 0      |
| 10 | BR<br>S | 0    | "3448432000" "344843/2000"<br>("3448432000")   | JPO; DERWENT       | 2003/08/25<br>17:02 |          | 0      |
| 11 | BR<br>S | 3    | "11290130" "2000-251301"   | JPO; DERWENT       | 2003/08/25<br>17:06 |          | 0      |
| 12 | BR<br>S | 1    | "11-290130" "2000-251301"  | JPO; DERWENT       | 2003/08/25<br>17:13 |          | 0      |
| 13 | BR<br>S | 3    | "2000344843" "2000-344843"   | JPO; DERWENT       | 2003/08/25<br>17:14 |          | 0      |
| 14 | BR<br>S | 2    | ((substrat\$2 same align\$5<br>same marks) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same marks)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1)) not<br>(((substrat\$2 same align\$5<br>same marks) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same marks)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1 | USPAT;<br>US-PGPUB | 2003/08/25<br>17:24 |          | 0      |

|    | Type    | Hits | Search Text   | DBs                  | Time Stamp          | Corr<br>mm<br>en<br>ts | Er<br>ro<br>r<br>De<br>fi<br>ni<br>ti<br>on | Er<br>ro<br>rs |
|----|---------|------|---|----------------------|---------------------|------------------------|---|----------------|
| 15 | BR<br>S | 0    | (substrat\$2 same align\$5<br>same marks) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same marks)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1)     | EPO; JPO;<br>DERWENT | 2003/08/25<br>18:03 |                        |   | 0              |
| 16 | BR<br>S | 1    | (substrat\$2 same align\$5<br>same mark\$4) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same mark\$4)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1) | EPO; JPO;<br>DERWENT | 2003/08/25<br>18:09 |                        |   | 0              |
| 17 | BR<br>S | 15   | (substrat\$2 same align\$5<br>same mark\$4) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same mark\$4)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1) | USPAT;<br>US-PGPUB   | 2003/08/25<br>18:21 |                        |   | 0              |

|    | Type    | Hits | Search Text   | DBs                | Time Stamp          | Corr<br>mm<br>en<br>ts | Er<br>ro<br>r<br>De<br>fi<br>ni<br>ti<br>on | Er<br>ro<br>rs |
|----|---------|------|---|--------------------|---------------------|------------------------|---|----------------|
| 18 | BR<br>S | 9    | ((substrat\$2 same align\$5<br>same marks) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same marks)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1)) and<br>(ferrule\$1 same align\$5)     | USPAT;<br>US-PGPUB | 2003/08/25<br>18:07 |                        |   | 0              |
| 19 | BR<br>S | 12   | ((substrat\$2 same align\$5<br>same mark\$4) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same mark\$4)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1)) and<br>(ferrule\$1 same align\$5) | USPAT;<br>US-PGPUB | 2003/08/26<br>13:11 |                        |   | 0              |

|    | Type    | Hits | Search Text  | DBs                | Time Stamp          | Comments | Error Definition | Errors |
|----|---------|------|--|--------------------|---------------------|----------|------------------|--------|
| 20 | BR<br>S | 3    | (((substrat\$2 same align\$5<br>same mark\$4) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same mark\$4)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1)) and<br>(ferrule\$1 same align\$5) )<br>not (((substrat\$2 same<br>align\$5 same marks) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same marks)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light | USPAT;<br>US-PGPUB | 2003/08/25<br>18:09 |          |                  | 0      |

|    | Type    | Hits  | Search Text  | DBs                  | Time Stamp          | Comments | Errors |
|----|---------|-------|--|----------------------|---------------------|----------|--------|
| 21 | BR<br>S | 5     | ((substrat\$2 same align\$5<br>same mark\$4) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same mark\$4)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1)) not<br>(((substrat\$2 same align\$5<br>same mark\$4) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same mark\$4)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1 | USPAT;<br>US-PGPUB   | 2003/08/25<br>18:18 |          | 0      |
| 22 | BR<br>S | 0     | 1999wo-jp11290130.ap,prai.   | EPO; JPO;<br>DERWENT | 2003/08/26<br>11:32 |          | 0      |
| 23 | BR<br>S | 0     | 1999wo-jp290130.ap,prai.   | EPO; JPO;<br>DERWENT | 2003/08/26<br>11:29 |          | 0      |
| 24 | BR<br>S | 0     | 2000wo-jp251301.ap,prai.   | EPO; JPO;<br>DERWENT | 2003/08/26<br>11:31 |          | 0      |
| 25 | BR<br>S | 0     | 2000wo-jp251301.ap,prai,   | EPO; JPO;<br>DERWENT | 2003/08/26<br>12:47 |          | 0      |
| 26 | BR<br>S | 0     | 1999wo-jp11290130.ap,prai,   | EPO; JPO;<br>DERWENT | 2003/08/26<br>11:30 |          | 0      |
| 27 | BR<br>S | 0     | jp251301.ap,prai.  | EPO; JPO;<br>DERWENT | 2003/08/26<br>11:31 |          | 0      |
| 28 | BR<br>S | 0     | jp11290130.ap,prai.  | EPO; JPO;<br>DERWENT | 2003/08/26<br>11:31 |          | 0      |
| 29 | BR<br>S | 0     | 2000wo-jp11290130.ap,prai.   | EPO; JPO;<br>DERWENT | 2003/08/26<br>11:37 |          | 0      |
| 30 | BR<br>S | 45573 | ishii.in.  | EPO; JPO;<br>DERWENT | 2003/08/26<br>11:38 |          | 0      |
| 31 | BR<br>S | 43428 | ishii.in.  | JPO; DERWENT         | 2003/08/26<br>11:38 |          | 0      |
| 32 | BR<br>S | 2361  | (optical adj1 module).ti.  | JPO; DERWENT         | 2003/08/26<br>11:39 |          | 0      |
| 33 | BR<br>S | 17    | ishii.in. and ((optical<br>adj1 module).ti.)   | JPO; DERWENT         | 2003/08/26<br>11:39 |          | 0      |



|    | Type    | Hits | Search Text  | DBs                | Time Stamp          | Comments | Error Definition | Errors |
|----|---------|------|--|--------------------|---------------------|----------|------------------|--------|
| 34 | BR<br>S | 5    | (ishii.in. and ((optical<br>adj1 module).ti.)) and<br>nomura   | JPO; DERWENT       | 2003/08/26<br>11:40 |          |                  | 0      |
| 35 | BR<br>S | 1    | "20020047088"  | USPAT;<br>US-PGPUB | 2003/08/26<br>12:09 |          |                  | 0      |
| 36 | BR<br>S | 6    | ("6217231"<br>"6263137" "5764836"<br>"6457877" "6406196"<br>"6112002").pn.   | USPAT;<br>US-PGPUB | 2003/08/26<br>12:10 |          |                  | 0      |
| 37 | BR<br>S | 7    | "20020047088"<br>(("6217231"<br>"6263137" "5764836"<br>"6457877" "6406196"<br>"6112002").pn.)  | USPAT;<br>US-PGPUB | 2003/08/26<br>12:10 |          |                  | 0      |
| 38 | BR<br>S | 2    | ("20020047088"<br>(("6217231"<br>"6263137" "5764836"<br>"6457877" "6406196"<br>"6112002").pn.)) and<br>((substrat\$2 same align\$5<br>same marks) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same marks)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1)) and<br>(ferrule\$1 same align\$5) | USPAT;<br>US-PGPUB | 2003/08/26<br>12:52 |          |                  | 0      |

|    | Type    | Hits | Search Text   | DBs                | Time Stamp          | Corr<br>mm<br>en<br>ts | Er<br>ro<br>r<br>De<br>fi<br>ni<br>ti<br>on | Er<br>ro<br>rs |
|----|---------|------|---|--------------------|---------------------|------------------------|---|----------------|
| 39 | BR<br>S | 4    | ("20020047088"<br>(("6217231"<br>"6263137" "5764836"<br>"6457877" "6406196"<br>"6112002").pn.)) and<br>((substrat\$2 same align\$5<br>same mark\$4) and<br>((photoactiv\$5 imag\$4<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same mark\$4)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 imag\$4<br>photodiod\$3 detect\$4 (photo<br>adj1 activ\$5) led leds<br>(light near1 source\$1)<br>photo adj1 (diode\$2<br>detect\$5) laser\$1) same<br>ferrule\$1)) and (ferrule\$1<br>same align\$5)                                       | USPAT;<br>US-PGPUB | 2003/08/26<br>13:16 |                        |   | 0              |
| 40 | BR<br>S | 4    | ("20020047088"<br>(("6217231"<br>"6263137" "5764836"<br>"6457877" "6406196"<br>"6112002").pn.)) and<br>((substrat\$2 same align\$5<br>same mark\$4) and<br>((photoactiv\$5 imag\$4<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same mark\$4)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 imag\$4<br>photodiod\$3 detect\$4 (photo<br>adj1 activ\$5) led leds<br>(light near1 source\$1)<br>photo adj1 (diode\$2<br>detect\$5) laser\$1) same<br>ferrule\$1)) and (ferrule\$1<br>same align\$5)) and<br>(substrat\$2 same ferrule\$1) | USPAT;<br>US-PGPUB | 2003/08/26<br>15:28 |                        |   | 0              |
| 41 | BR<br>S | 3    | ("6263137" "6217231"<br>"5764836").pn.  | USPAT;<br>US-PGPUB | 2003/08/26<br>13:19 |                        |   | 0              |
| 42 | BR<br>S | 4    | "20020047088"<br>(("6263137" "6217231"<br>"5764836").pn.<br>)   | USPAT;<br>US-PGPUB | 2003/08/26<br>13:19 |                        |   | 0              |

|    | Type    | Hits | Search Text  | DBs                | Time Stamp          | Corr<br>mm<br>en<br>ts | De<br>fi<br>ni<br>tion | Er<br>ro<br>rs |
|----|---------|------|--|--------------------|---------------------|------------------------|------------------------|----------------|
| 43 | BR<br>S | 4    | ("20020047088"<br>(("6263137" "6217231"<br>"5764836").pn.<br>) and (substrat\$2 same<br>ferrule\$1)  | USPAT;<br>US-PGPUB | 2003/08/26<br>15:22 |                        |                        | 0              |
| 44 | BR<br>S | 4    | ("20020047088"<br>(("6263137" "6217231"<br>"5764836").pn.<br>) and (align\$6 same<br>ferrule same fiber\$1)  | USPAT;<br>US-PGPUB | 2003/08/26<br>15:26 |                        |                        | 0              |
| 45 | BR<br>S | 3    | ("20020047088"<br>(("6263137" "6217231"<br>"5764836").pn.<br>) and (mark\$1 same<br>(substr\$4 carr\$4) same<br>(ferrul\$2 fiber\$1))  | USPAT;<br>US-PGPUB | 2003/08/26<br>15:29 |                        |                        | 0              |
| 46 | BR<br>S | 2    | ("20020047088"<br>(("6263137" "6217231"<br>"5764836").pn.<br>) and (align\$6 same<br>ferrule same fiber\$1)) and<br>pin\$1   | USPAT;<br>US-PGPUB | 2003/08/26<br>14:58 |                        |                        | 0              |
| 47 | BR<br>S | 0    | ("5768456" "6130979"<br>"5574814" "6056448"<br>"6203212" "6250820"<br>"5611013" "5499311"<br>"6137929").pn.) and (mark\$4<br>same (substr\$4 carr\$4) same<br>(ferrul\$2 fiber\$1))  | USPAT;<br>US-PGPUB | 2003/08/26<br>15:07 |                        |                        | 0              |
| 48 | BR<br>S | 0    | ((("5768456" "6130979"<br>"5574814" "6056448"<br>"6203212" "6250820"<br>"5611013" "5499311"<br>"6137929").pn.) and (mark\$4<br>same (substr\$4 carr\$4) same<br>(ferrul\$2 fiber\$1))) and<br>(align\$6 same ferrule same<br>fiber\$1) | USPAT;<br>US-PGPUB | 2003/08/26<br>15:08 |                        |                        | 0              |
| 49 | BR<br>S | 1    | ("5768456" "6130979"<br>"5574814" "6056448"<br>"6203212" "6250820"<br>"5611013" "5499311"<br>"6137929").pn.) and<br>(align\$6 same ferrule same<br>fiber\$1)   | USPAT;<br>US-PGPUB | 2003/08/26<br>15:08 |                        |                        | 0              |
| 50 | BR<br>S | 9    | ("5768456" "6130979"<br>"5574814" "6056448"<br>"6203212" "6250820"<br>"5611013" "5499311"<br>"6137929").pn.  | USPAT;<br>US-PGPUB | 2003/08/26<br>15:10 |                        |                        | 0              |
| 51 | BR<br>S | 5    | ("20020047088"<br>(("6217231"<br>"6263137" "5764836"<br>"6457877" "6406196"<br>"6112002").pn.)) and<br>(mark\$1 same (substr\$4<br>carr\$4) same (ferrul\$2<br>fiber\$1))  | USPAT;<br>US-PGPUB | 2003/08/26<br>15:24 |                        |                        | 0              |

|    | Type    | Hits | Search Text  | DBs                | Time Stamp          | Comments | Errors |
|----|---------|------|--|--------------------|---------------------|----------|--------|
| 52 | BR<br>S | 1    | 6130979.pn.  | USPAT;<br>US-PGPUB | 2003/08/26<br>15:21 |          | 0      |
| 53 | BR<br>S | 0    | 6130979.pn. and (substrat\$2<br>same ferrule\$1)   | USPAT;<br>US-PGPUB | 2003/08/26<br>15:22 |          | 0      |
| 54 | BR<br>S | 4    | ((("20020047088"<br>(("6217231"<br>"6263137" "5764836"<br>"6457877" "6406196"<br>"6112002").pn.)) and<br>(mark\$4 same (substr\$4<br>carr\$4) same (ferrul\$2<br>fiber\$1))) and (align\$6<br>same ferrule same fiber\$1)  | USPAT;<br>US-PGPUB | 2003/08/26<br>15:26 |          | 0      |
| 55 | BR<br>S | 6    | ((("20020047088"<br>(("6217231"<br>"6263137" "5764836"<br>"6457877" "6406196"<br>"6112002").pn.)) and<br>(mark\$4 same (substr\$4<br>carr\$4) same (ferrul\$2<br>fiber\$1))) and (substrat\$2<br>same ferrule\$1)  | USPAT;<br>US-PGPUB | 2003/08/26<br>15:28 |          | 0      |
| 56 | BR<br>S | 4    | ((("20020047088"<br>(("6217231"<br>"6263137" "5764836"<br>"6457877" "6406196"<br>"6112002").pn.)) and<br>(mark\$4 same (substr\$4<br>carr\$4) same (ferrul\$2<br>fiber\$1))) and (substrat\$2<br>same ferrule\$1)) and<br>(mark\$1 same (substr\$4<br>carr\$4) same (ferrul\$2<br>fiber\$1)) | USPAT;<br>US-PGPUB | 2003/08/26<br>15:34 |          | 0      |
| 57 | BR<br>S | 1    | 6217231.pn.  | USPAT;<br>US-PGPUB | 2003/08/26<br>15:35 |          | 0      |
| 58 | BR<br>S | 0    | 6217231.pn. and align\$5<br>same ferrule\$1 same<br>(photoactiv\$5 photodetect\$4<br>photodiod\$3 detect\$4 (photo<br>adj1 activ\$5) led leds<br>(light near1 source\$1)<br>photo adj1 (diode\$2<br>detect\$5) laser\$1)   | USPAT;<br>US-PGPUB | 2004/01/27<br>17:19 |          | 0      |
| 59 | BR<br>S | 1    | 6217231.pn. and (align\$5<br>same (ferrule\$1 fiber\$1)<br>same (photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5)<br>laser\$1))   | USPAT;<br>US-PGPUB | 2003/08/26<br>16:03 |          | 0      |
| 60 | BR<br>S | 1    | 6217231.pn. and (align\$5<br>same (ferrule\$1 fiber\$1))   | USPAT;<br>US-PGPUB | 2003/08/26<br>16:11 |          | 0      |
| 61 | BR<br>S | 1    | 6217231.pn. and (mark\$4<br>near9 (substra\$4 carri\$4))   | USPAT;<br>US-PGPUB | 2003/08/26<br>17:04 |          | 0      |

|    | Type    | Hits | Search Text   | DBs                | Time Stamp          | Comments | Errors |
|----|---------|------|---|--------------------|---------------------|----------|--------|
| 62 | BR<br>S | 1    | 6217231.pn. and (mark\$4 same (substrat\$3 carri\$3) same mark\$4 same (fiber\$1 ferrule\$1))   | USPAT;<br>US-PGPUB | 2003/08/26<br>17:50 |          | 0      |
| 63 | BR<br>S | 1    | 6217231.pn. and (etch\$4 photolithograph\$4)  | USPAT;<br>US-PGPUB | 2003/08/26<br>18:08 |          | 0      |
| 64 | BR<br>S | 0    | 6217231.pn. and (film\$3 same (transparent\$4 clear ssubstrat\$3))  | USPAT;<br>US-PGPUB | 2003/08/26<br>18:09 |          | 0      |
| 65 | BR<br>S | 1    | 6217231.pn. and (film\$3 same (transparent\$4 clear substrat\$3))   | USPAT;<br>US-PGPUB | 2003/08/26<br>18:10 |          | 0      |
| 66 | BR<br>S | 7    | ("20020047088"<br>(("6217231"<br>"6263137" "5764836"<br>"6457877" "6406196"<br>"6112002").pn.)) and<br>(mark\$4 same (substr\$4 carr\$4) same (ferrul\$2 fiber\$1))   | USPAT;<br>US-PGPUB | 2003/08/26<br>19:22 |          | 0      |
| 67 | BR<br>S | 5    | ("6310995" "5889902"<br>"5090790" "5282080"<br>"5732179").pn.   | USPAT;<br>US-PGPUB | 2003/08/27<br>11:12 |          | 0      |
| 68 | BR<br>S | 4    | ((("6310995" "5889902"<br>"5090790" "5282080"<br>"5732179").pn.) and<br>((transverse same electric<br>same magnetic same (modal<br>gains)) (te same tm))  | USPAT;<br>US-PGPUB | 2003/08/27<br>12:55 |          | 0      |
| 69 | BR<br>S | 3    | ((("6310995" "5889902"<br>"5090790" "5282080"<br>"5732179").pn.) and<br>((transverse same electric<br>same magnetic same (modal<br>gains)) (te same tm))) and<br>(quantum adj1 wells)   | USPAT;<br>US-PGPUB | 2003/08/27<br>11:22 |          | 0      |
| 70 | BR<br>S | 0    | ((("6310995" "5889902"<br>"5090790" "5282080"<br>"5732179").pn.) and<br>((transverse same electric<br>same magnetic same (modal<br>gains)) (te same tm))) and<br>((quantum adj1 wells) same<br>compress\$4 same (tens\$3<br>strain\$3)) | USPAT;<br>US-PGPUB | 2003/08/27<br>12:54 |          | 0      |
| 71 | BR<br>S | 2    | ("5889902" "6310995").pn.   | USPAT;<br>US-PGPUB | 2003/08/27<br>12:54 |          | 0      |
| 72 | BR<br>S | 0    | ((("5889902" "6310995").pn.)<br>and ((quantum adj1 wells)<br>same compress\$4 same<br>(tens\$3 strain\$3))  | USPAT;<br>US-PGPUB | 2003/08/27<br>12:55 |          | 0      |

|    | Type    | Hits | Search Text   | DBs                | Time Stamp          | Com<br>mm<br>en<br>ts | Er<br>ro<br>r<br>De<br>fi<br>ni<br>ti<br>on | Er<br>ro<br>rs |
|----|---------|------|---|--------------------|---------------------|-----------------------|---|----------------|
| 73 | BR<br>S | 1    | ((("5889902"<br>"6310995").pn.) and<br>((quantum adj1 wells) same<br>(compress\$4 tens\$3<br>strain\$3))) and<br>((transverse same electric<br>same magnetic same (modal<br>gains)) (te same tm))   | USPAT;<br>US-PGPUB | 2003/08/27<br>12:56 |                       |   | 0              |
| 74 | BR<br>S | 2    | ((("5889902" "6310995").pn.)<br>and ((quantum adj1 wells)<br>same (compress\$4 tens\$3<br>strain\$3)))  | USPAT;<br>US-PGPUB | 2003/08/27<br>14:23 |                       |   | 0              |
| 75 | BR<br>S | 5    | ((("6310995" "5889902"<br>"5090790" "5282080"<br>"5732179").pn.) (("5889902"<br>"6310995").pn.)   | USPAT;<br>US-PGPUB | 2003/08/27<br>14:23 |                       |   | 0              |
| 76 | BR<br>S | 5    | ((("6310995" "5889902"<br>"5090790" "5282080"<br>"5732179").pn.) (("5889902"<br>"6310995").pn.))<br>(((("5889902"<br>"6310995").pn.) and<br>((quantum adj1 wells) same<br>(compress\$4 tens\$3<br>strain\$3))))   | USPAT;<br>US-PGPUB | 2003/08/27<br>14:23 |                       |   | 0              |
| 77 | BR<br>S | 0    | ((("6310995" "5889902"<br>"5090790" "5282080"<br>"5732179").pn.) (("5889902"<br>"6310995").pn.))<br>(((("5889902"<br>"6310995").pn.) and<br>((quantum adj1 wells) same<br>(compress\$4 tens\$3<br>strain\$3)))) and circulat\$5   | USPAT;<br>US-PGPUB | 2003/08/27<br>14:24 |                       |   | 0              |
| 78 | BR<br>S | 1    | 6217231.pn.   | USPAT;<br>US-PGPUB | 2004/01/27<br>17:19 |                       |   | 0              |
| 79 | BR<br>S | 14   | (substrat\$2 same align\$5<br>same marks) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same marks)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1) | USPAT;<br>US-PGPUB | 2004/04/14<br>12:12 |                       |   | 0              |

|    | Type    | Hits | Search Text   | DBs                  | Time Stamp          | Corr<br>mm<br>en<br>ts | Er<br>ro<br>r<br>De<br>fi<br>ni<br>ti<br>on | Er<br>ro<br>rs |
|----|---------|------|---|----------------------|---------------------|------------------------|---|----------------|
| 80 | BR<br>S | 0    | (substrat\$2 same align\$5<br>same marks) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same marks)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1) | EPO; JPO;<br>DERWENT | 2004/01/28<br>13:46 |                        |   | 0              |
| 81 | BR<br>S | 1    | 6217231.pn.   | USPAT;<br>US-PGPUB   | 2004/04/14<br>11:48 |                        |   | 0              |
| 82 | BR<br>S | 17   | (substrat\$2 same align\$5<br>same marks) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same marks)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1) | USPAT;<br>US-PGPUB   | 2004/04/14<br>12:13 |                        |   | 0              |
| 83 | BR<br>S | 0    | (substrat\$2 same align\$5<br>same marks) and<br>((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same align\$5 same marks)<br>and (ferrul\$2 same fiber\$1)<br>and ((photoactiv\$5<br>photodetect\$4 photodiod\$3<br>detect\$4 (photo adj1<br>activ\$5) led leds (light<br>near1 source\$1) photo adj1<br>(diode\$2 detect\$5) laser\$1)<br>same ferrule\$1) | EPO; JPO;<br>DERWENT | 2004/04/14<br>12:13 |                        |   | 0              |

|    | Type    | Hits       | Search Text   | DBs                | Time Stamp          | Comments | Error Definition | Errors |
|----|---------|------------|---|--------------------|---------------------|----------|------------------|--------|
| 84 | BR<br>S | 17         | (substrat\$2 same align\$5 same marks) and ((photoactiv\$5 photodetect\$4 photodiod\$3 detect\$4 (photo adj1 activ\$5) led leds (light near1 source\$1) photo adj1 (diode\$2 detect\$5) laser\$1) same align\$5 same marks) and (ferrul\$2 same fiber\$1) and ((photoactiv\$5 photodetect\$4 photodiod\$3 detect\$4 (photo adj1 activ\$5) led leds (light near1 source\$1) photo adj1 (diode\$2 detect\$5) laser\$1) same ferrule\$1) | USPAT;<br>US-PGPUB | 2004/04/14<br>13:38 |          |                  | 0      |
| 85 | BR<br>S | 0          | '10/722894'   | USPAT;<br>US-PGPUB | 2004/04/14<br>13:39 |          |                  | 0      |
| 86 | BR<br>S | 1          | '09/954130'   | USPAT;<br>US-PGPUB | 2004/04/14<br>16:05 |          |                  | 0      |
| 87 | BR<br>S | 1          | '09/954130' and (carrier\$1 same (apertur\$1 window\$1 hole\$1 opening\$1 align\$5)) and (pin\$1 same (apertur\$1 window\$1 hole\$1 opening\$1 align\$5 ferrul\$2)) and (support\$4 same substrat\$2)   | USPAT;<br>US-PGPUB | 2004/04/14<br>14:20 |          |                  | 0      |
| 88 | BR<br>S | 21233<br>3 | (carrier\$1 recepticl\$2 substrat\$2) same (apertur\$1 window\$1 hole\$1 opening\$1)  | USPAT;<br>US-PGPUB | 2004/04/14<br>14:28 |          |                  | 0      |
| 89 | BR<br>S | 31147<br>4 | (apertur\$1 window\$1 hole\$1 opening\$1 align\$5) near7 align\$5   | USPAT;<br>US-PGPUB | 2004/04/14<br>14:25 |          |                  | 0      |
| 90 | BR<br>S | 503        | (pin\$1 near7 align\$5) same ferrul\$2  | USPAT;<br>US-PGPUB | 2004/04/14<br>14:27 |          |                  | 0      |
| 91 | BR<br>S | 332        | (pin\$1 near7 align\$5) same ferrul\$2 same (waveguid\$3 fiber\$1)  | USPAT;<br>US-PGPUB | 2004/04/14<br>14:27 |          |                  | 0      |
| 92 | BR<br>S | 90186      | (support\$3) same (apertur\$1 window\$1 hole\$1 opening\$1) same align\$5   | USPAT;<br>US-PGPUB | 2004/04/14<br>14:28 |          |                  | 0      |
| 93 | BR<br>S | 14         | ((carrier\$1 recepticl\$2 substrat\$2) same (apertur\$1 window\$1 hole\$1 opening\$1) ) and ((apertur\$1 window\$1 hole\$1 opening\$1 align\$5) near7 align\$5) and ((pin\$1 near7 align\$5) same ferrul\$2 same (waveguid\$3 fiber\$1)) and ((support\$3) same (apertur\$1 window\$1 hole\$1 opening\$1) same align\$5 )   | USPAT;<br>US-PGPUB | 2004/07/26<br>11:26 |          |                  | 0      |



|     | Type    | Hits  | Search Text  | DBs                  | Time Stamp          | Comments | Errors |
|-----|---------|-------|--|----------------------|---------------------|----------|--------|
| 94  | BR<br>S | 0     | ((carrier\$1 recepticl\$2<br>substrat\$2) same (apertur\$1<br>window\$1 hole\$1 opening\$1)<br>) and ((apertur\$1 window\$1<br>hole\$1 opening\$1 align\$5)<br>near7 align\$5) and ((pin\$1<br>near7 align\$5) same<br>ferrul\$2 same (waveguid\$3<br>fiber\$1)) and ((support\$3)<br>same (apertur\$1 window\$1<br>hole\$1 opening\$1) same<br>align\$5 )                     | EPO; JPO;<br>DERWENT | 2004/04/14<br>16:05 |          | 0      |
| 95  | BR<br>S | 3     | ("6641310" "6130979"<br>"6085007").pn.   | USPAT;<br>US-PGPUB   | 2004/04/14<br>15:25 |          | 0      |
| 96  | BR<br>S | 3     | ((("6641310" "6130979"<br>"6085007").pn.<br>) and silicon  | USPAT;<br>US-PGPUB   | 2004/04/14<br>15:25 |          | 0      |
| 97  | BR<br>S | 622   | 385/89.ccls.   | USPAT;<br>US-PGPUB   | 2004/04/14<br>16:07 |          | 0      |
| 98  | BR<br>S | 0     | 385/89.ccls. and<br>((carrier\$1 recepticl\$2<br>substrat\$2) same (apertur\$1<br>window\$1 hole\$1 opening\$1)<br>) and ((apertur\$1 window\$1<br>hole\$1 opening\$1 align\$5)<br>near7 align\$5) and ((pin\$1<br>near7 align\$5) same<br>ferrul\$2 same (waveguid\$3<br>fiber\$1)) and ((support\$3)<br>same (apertur\$1 window\$1<br>hole\$1 opening\$1) same<br>align\$5 ) | EPO; JPO;<br>DERWENT | 2004/04/14<br>16:06 |          | 0      |
| 99  | BR<br>S | 0     | 385/89.ccls. and<br>((carrier\$1 recepticl\$2<br>substrat\$2) same (apertur\$1<br>window\$1 hole\$1 opening\$1)<br>) and ((apertur\$1 window\$1<br>hole\$1 opening\$1 align\$5)<br>near7 align\$5) and ((pin\$1<br>near7 align\$5) same<br>ferrul\$2 same (waveguid\$3<br>fiber\$1)) and ((support\$3)<br>same (apertur\$1 window\$1<br>hole\$1 opening\$1))                   | EPO; JPO;<br>DERWENT | 2004/04/14<br>16:08 |          | 0      |
| 100 | BR<br>S | 29310 | 385/\$.ccls.   | USPAT;<br>US-PGPUB   | 2004/04/14<br>16:07 |          | 0      |

|     | Type    | Hits | Search Text  | DBs                  | Time Stamp          | Comments | Errors |
|-----|---------|------|--|----------------------|---------------------|----------|--------|
| 101 | BR<br>S | 0    | 385/\$.ccls. and ((carrier\$1<br>recepticl\$2 substrat\$2)<br>same (apertur\$1 window\$1<br>hole\$1 opening\$1) ) and<br>((apertur\$1 window\$1 hole\$1<br>opening\$1 align\$5) near7<br>align\$5) and ((pin\$1 near7<br>align\$5) same ferrul\$2 same<br>(waveguid\$3 fiber\$1)) and<br>((support\$3) same<br>(apertur\$1 window\$1 hole\$1<br>opening\$1)) | EPO; JPO;<br>DERWENT | 2004/04/14<br>16:08 |          | 0      |
| 102 | BR<br>S | 14   | (5,499,311<br>5,574,814<br>5,611,013<br>5,768,456<br>6,056,448<br>6,112,002<br>6,130,979<br>6,137,929<br>6,203,212<br>6,217,231<br>6,250,820<br>6,263,137<br>6,406,196<br>6457,877) .pn.   | USPAT;<br>US-PGPUB   | 2004/04/19<br>16:52 |          | 0      |
| 103 | BR<br>S | 14   | (5,499,311<br>5,574,814<br>5,611,013<br>5,768,456<br>6,056,448<br>6,112,002<br>6,130,979<br>6,137,929<br>6,203,212<br>6,217,231<br>6,250,820<br>6,263,137<br>6,406,196<br>6457,877) .pn.   | USPAT;<br>US-PGPUB   | 2004/04/19<br>16:53 |          | 0      |